



UNIVERSITY OF NIŠ

Course Unit Descriptor**Faculty**

Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	Engineering Management		
Study Module (if applicable)	Management of innovation and product development		
Course Title	Integrated product development		
Level of Study	<input type="checkbox"/> Bachelor	<input checked="" type="checkbox"/> Master's	<input type="checkbox"/> Doctoral
Type of Course	<input checked="" type="checkbox"/> Obligatory	<input type="checkbox"/> Elective	
Semester	<input checked="" type="checkbox"/> Autumn	<input type="checkbox"/> Spring	
Year of Study	I		
Number of ECTS Allocated	6		
Name of Lecturer/Lecturers	Milan J. Rackov, Nenad T. Pavlović		
Teaching Mode	<input checked="" type="checkbox"/> Lectures	<input type="checkbox"/> Group tutorials	<input type="checkbox"/> Individual tutorials
	<input type="checkbox"/> Laboratory work	<input checked="" type="checkbox"/> Project work	<input checked="" type="checkbox"/> Seminar
	<input type="checkbox"/> Distance learning	<input type="checkbox"/> Blended learning	<input type="checkbox"/> Other

Purpose and Overview (max. 5 sentences)

To gain new knowledge with integrated approach in product development, defining product profile, gain new idea solution based on physical effect, concept, draft and elaborate design, prototyping and product verification.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) Introduction, 2) Mechanical system as object of product development, 3) Product development – process and organisation. Integrated product development as global development strategy. Simultaneous engineering. , 4) Product models. Place and role of product development in company, 5) Management of integrated product development, 6) Product life cycle, 7) Modelling of function. Basic modelling of function. 8) Modelling of function regarding product transformation.

Language of Instruction

☒ Serbian (complete course) ☒ English (complete course) ☐ Other _____ (complete course)

☐ Serbian with English mentoring ☐ Serbian with other mentoring _____

Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	5	Written Examination	0

Practical Teaching	35	Oral Examination	30
Teaching Colloquia	30	Overall Sum	100
*Final examination mark is formed in accordance with the Institutional documents			